

ABSTRACT OF THE DISCLOSURE

A method and apparatus for efficient access to multiple lines of image data using a memory device with at least one memory module, wherein each memory module has at least one bank with 5 multiple rows. The method includes the step of maintaining address information of a current row for each bank within each memory module. Next, the method receives a request for an incoming row. Finally, the method determines if the incoming row matches the current row based on the address information and 10 if so, immediately accesses the current row without closing and reopening the current row.